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Letter of Transmittal

Attention: Mr. Christopher Black Date: November 7, 2016
Environmental Scientist
Address USEPA Region 5
77 West Jackson Blvd. LU-9J
Chicago, IL 60604

Project references: Former Warner Electric, Roscoe, IL Project number: 60508313.001

We are sending you the following:

Number of originals: 2 Number of copies: 1 (electronic) Description: 2016 Third Quarter Progress Report, Former Warner Electric Division, Dana Companies LLC, Roscoe, IL

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REMARKS:

SIGNED:

James A. Buss
James A. Buss, P.G.



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November 7, 2016

Mr. Chris Black
EPA Project Coordinator
U.S. Environmental Protection Agency, Region 5
77 West Jackson Blvd.
Corrective Action Section, LU-9J
Chicago, IL 60604-3590

Subject: 2016 Third Quarter Progress Report, Former Warner Electric Clutch and Brake Facility, Roscoe, Illinois (RCRA-05-2013-0005)

Dear Mr. Black:

This progress report documents the results of groundwater monitoring activities at the former Warner Electric Clutch and Brake facility (Warner) in Roscoe, Illinois during the third quarter of 2016. This report is provided in accordance with the Amended Administrative Order on Consent (AAOC) between Dana Companies LLC (Dana) and the United States Environmental Protection Agency Region 5 (USEPA), dated April 17, 2013 as well as a USEPA letter approving modifications to the long term sampling program, dated of July 5, 2016. This report supports the USEPA letter of June 17, 2014, which found that the project has successfully completed construction of the remedy designed to achieve long term protection of human health and the environment (CA550 – event code).

Background

Historically, Dana conducted remedial activities at the Warner site under an Administrative Order on Consent (AOC) between the USEPA and Dana, dated December 28, 1989. During most of the time the AOC was in place, remediation was accomplished through the capture and treatment of affected groundwater near the Rock River, approximately 1.25 miles downgradient from the Warner facility (**Figure 1**). However, the system became increasingly inefficient and ineffective as concentrations of hazardous constituents, primarily trichloroethene (TCE) and cis-1,2-dichloroethene (cis-1,2-DCE), decreased over time. By 2007, influent concentrations had decreased to a level below the National Pollution Discharge Elimination System (NPDES) permitted effluent limits, and the system no longer provided any substantive remedial benefit.

At this point, Dana approached the USEPA and requested an amendment to the AOC to refocus remedial activities to the Warner facility where residual impacts remained. As part of this effort, Dana developed the 2007 Work Plan that employed enhanced reductive dechlorination (ERD) and soil vapor extraction (SVE) to address residual subsurface impacts at the facility, and groundwater monitoring to document the success of remedial efforts. In 2009, following revisions to address USEPA comments, a final version of the Work Plan was approved by the USEPA.

In 2010, the USEPA issued a Statement of Basis outlining historic remedial efforts at the site and revised the planes of performance for long-term remediation at the site.

To expedite remediation of the facility, Dana voluntarily undertook the remedial efforts outlined in the Work Plan prior to the promulgation of the revised AOC. In March 2010 the monitoring well network was expanded to 19 wells as shown on **Figure 2**. April 2010 an ERD program, consisting of 300 injection points was implemented and the SVE system was brought on-line. The SVE system operated until September 2011, when influent sampling showed the system had reduced concentrations by a factor of nearly 9,000x and little rebound was noted following system shutdown. Quarterly groundwater monitoring

was initiated in 2010. In 2013, when monitoring revealed an increase in TCE concentrations in the source area, Dana conducted a supplemental ERD program, which returned TCE concentrations to levels well below the Intermediate Cleanup Criteria. Also in 2013, the AAOC, which provides the current regulatory framework for continued remedial activities, was implemented.

Groundwater Monitoring

As noted above, the USEPA letter of July 5, 2016, approved a modification in the sampling program that reduced the number of monitoring wells sampled during this event to four (MW-103, MW-104, MW-105, and LTMW-03). On September 27 2016, AECOM collected groundwater samples from the four monitoring wells.

As in the past, samples were collected using low-flow sampling techniques with a bladder pump. Stabilization was accomplished with field readings of pH, specific conductance, temperature, dissolved oxygen, and ORP. Following stabilization, laboratory-supplied sample containers were filled directly from the pump discharge without filtration. Samples were stored on ice prior to delivery to the PACE Analytical Services, Inc., (PACE) for laboratory analysis of the site-related CVOCs and total chromium. Quality control samples included field duplicates and rinse blanks (10 percent of the samples collected), trip blanks (one per cooler), laboratory method blanks, and surrogate spike samples.

Table 1 presents tabulated summaries of the field and laboratory analysis. **Figure 3** through **Figure 6** present time concentration graphs for TCE and cis-1,2-DCE. Attachment A contains the laboratory analytical report. Following are pertinent observations regarding the results and trends noted on the table and figures.

- Well MW-103 (**Figure 3**) showed low TCE concentrations (less than 12 µg/L) that were within their historic post-injection concentration range.
- Well MW-104 (**Figure 4**) showed a substantial decline in TCE concentration (44.7 µg/L), falling well below the intermediate groundwater cleanup criteria. The ORP (-44 mVolts) and dissolved oxygen 2.6 mg/L remain low, suggesting conditions remain favorable for reductive dechlorination.
- Well MW-105 (**Figure 5**) continued to show only trace TCE concentration (1.8 µg/L) while the vinyl chloride concentration decreased (35.7 µg/L). As the aquifer returns to aerobic conditions, it is anticipated that vinyl chloride will undergo aerobic oxidation or cometabolism to decrease concentrations below the Long Term Cleanup Criteria. Vinyl chloride has not been detected in the downgradient wells on Hononegah Road or Edgemere Terrace.
- Well LTMW-03 (**Figure 6**) continues to show a slow reduction in TCE concentration with a concentration of (12.1 µg/L), slightly above the Long Term Cleanup Criteria for TCE (5 µg/L). Vinyl chloride was also reported at 7.6 µg/L effectively the same as the second quarter sampling event.

Conclusions

Dana conducted quarterly groundwater sampling at four monitoring wells associated with the Warner facility. Results continue to show that remedial efforts conducted at the source area have been successful. All results met the Intermediate Cleanup Criteria, and are approaching the Long Term Cleanup Criteria. No changes to the sampling program are recommended at this time.

Please do not hesitate to contact me at (608) 828-8210 if you have any questions or comments on this letter or the attached figures or tables.

Sincerely,



James A. Buss, P.G
Project Manager

Cc: Craig Campbell, Dana Companies, LLC

Attachments:

- Table 1 – Summary of Monitoring Well Sampling Results
- Figure 1 – Site Location Map
- Figure 2 – Monitoring Well Location Plan
- Figure 3 – MW-103 CVOC Concentration Trend
- Figure 4 – MW-104 CVOC Concentration Trend
- Figure 5 – MW-105 CVOC Concentration Trend
- Figure 6 – LTMW-03 CVOC Concentration Trend

Laboratory Data

Attachment 1 – September 2016 Laboratory Analytical Report

TABLE

Tables

Table 1
Monitoring Well Summary
Former Warner Facility
Roscoe, Illinois

Well	Date	Field Parameters							Volatile Organic Compounds						
		Water Depth	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
		Feet	Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Intermediate Groundwater Cleanup Goal - For Source Area Monitoring Wells⁽¹⁾															
MW-103	9/16/2008	25.4	728.28	14.3	6.65	864	344	2.0	1.3	< 1.0	<1.0	132	23.1	<1.0	<1.0
	9/26/2008	NM	NM	14.2	6.93	867	243	8.7	<5.0	< 5.0	<5.0	230	39.9	<5.0	<5.0
	10/8/2008	25.96	727.72	14.1	6.88	984	-93	3.9	1.3	< 1.0	<1.0	149	23.3	<1.0	<1.0
	11/6/2008	26.57	727.11	14.4	6.89	906	-200	1.2	1.1	< 1.0	<1.0	120	19.7	<1.0	<1.0
	11/24/2008	26.86	726.82	13.4	6.88	948	-244	0.3	<1.0	< 1.0	<1.0	78.2	23.3	<1.0	<1.0
	12/15/2008	27.27	726.41	13.5	7.14	774	-223	0.2	<1.0	< 1.0	<1.0	62.0	44.8	<1.0	<1.0
	3/9/2010	27.40	726.28	13.8	7.19	729	-59	0.7	<1.0	< 1.0	<1.0	40.6	10.7	<1.0	<1.0
	5/27/2010	26.82	726.86	15.8	7.01	837	-175	0.3	<1.0	< 1.0	<1.0	1.9	51.1	<1.0	<1.0
	7/1/2010	27.03	726.65	15.0	6.85	763	-6	0.1	<1.0	< 1.0	<1.0	3.2	28.6	<1.0	<1.0
	7/29/2010	26.90	726.78	18.8	7.29	759	-222	0.4	<1.0	< 1.0	<1.0	11.3	14.5	<1.0	<1.0
	8/30/2010	26.41	727.27	18.2	7.18	726	-175	0.2	<1.0	< 1.0	<1.0	11.3	6.4	<1.0	<1.0
	9/24/2010	26.90	726.78	16.6	7.28	721	-270	0.2	<1.0	< 1.0	<1.0	13.0	3.9	<1.0	<1.0
	11/4/2010	27.62	726.06	14.6	7.43	665	-141	0.4	<1.0	< 1.0	<1.0	10.0	1.8	<1.0	<1.0
DUP-01	11/29/2010	28.10	725.58	12.9	7.39	675	-125	0.4	<1.0	< 1.0	<1.0	12.4	1	<1.0	<1.0
	12/20/2010	28.30	725.38	14.0	7.35	645	-110	1.6	<1.0	< 1.0	<1.0	6.2	<1.0	<1.0	<1.0
	12/20/2010	28.30	725.38	14.0	7.35	645	-110	1.6	<1.0	< 1.0	<1.0	5.7	<1.0	<1.0	<1.0
	3/22/2011	27.95	725.73	14.2	7.33	723	-128	0.1	< 0.9	< 0.75	< 0.45	3.1	< 0.83	< 0.89	< 0.18
	7/7/2011	27.84	725.84	17.7	7.35	762	-74	0.5	< 0.9	< 0.75	< 0.45	6.6	< 0.83	< 0.89	< 0.18
	9/23/2011	28.63	725.05	15.6	7.32	719	-99	1.4	< 0.9	< 0.75	< 0.45	2.3	< 0.83	< 0.89	< 0.18
	12/21/2011	28.98	724.70	15.6	7.25	654	-101	2.1	< 0.9	< 0.75	< 0.45	1.9	< 0.83	< 0.89	< 0.18
	3/6/2012	29.52	724.16	15.2	7.36	699	-92	0.4	< 0.9	< 0.75	< 0.45	2.0	< 0.83	< 0.89	< 0.18
DUP-02	3/6/2012	29.52	724.16	15.2	7.36	699	-92	0.4	< 0.9	< 0.75	< 0.45	2.2	< 0.83	< 0.89	< 0.18
	6/7/2012	29.81	723.87	15.3	7.22	707	-39	0.3	< 0.9	< 0.75	< 0.45	2.0	< 0.83	< 0.89	< 0.18
	9/27/2012	31.50	722.18	14.8	7.30	736	-70	0.0	< 0.9	< 0.75	< 0.45	1.2	< 0.83	< 0.89	< 0.18
	12/20/2012	32.06	721.62	14.9	7.30	749	38	0.1	< 0.9	< 0.75	< 0.45	1.7	< 0.83	< 0.89	< 0.18
	3/9/2013	31.47	722.21	14.7	7.24	719	69	0.7	< 0.9	< 0.75	< 0.45	82.9	10	< 0.89	< 0.18
	5/20/2013	27.54	726.14	15.2	7.23	727	42	4.6	< 2.2	< 1.4	< 2.4	355	35.7	< 1.9	< 0.92
	8/27/2013	26.56	727.12	16.6	6.45	1645	-22	1.0	0.71	0.30 J	< 0.47	109	23.5	< 0.37	< 0.18
	10/23/2013	27.97	725.71	15.5	7.02	873	-163	0.1	< 0.44	< 0.28	< 0.47	7.3	25.2	< 0.37	< 0.18
	11/25/2013	28.38	725.30	15.6	7.23	736	-131	0.1	< 0.44	< 0.28	< 0.47	6.5	6.8	< 0.37	< 0.18
	12/11/2013	28.65	725.03	15.5	7.27	687	-119	0.1	< 0.44	< 0.28	< 0.47	9.5	5.6	< 0.37	< 0.18
	3/11/2014	29.24	724.44	15.5	7.40	677	-115	0.6	< 0.44	< 0.28	< 0.47	9.6	4.2	< 0.37	< 0.18
	6/25/2014	27.93	725.75	16.1	7.25	735	-97	0.1	0.63 J	0.94 J	< 0.50	85.2	15.9	< 0.26	< 0.18
	9/24/2014	28.08	725.60	15.9	7.30	748	-91	0.1	< 0.50	< 0.24	< 0.50	34.1	7.3	< 0.26	< 0.18
	12/17/2014	29.29	724.39	15.6	7.13	782	-49	1.2	< 0.50	< 0.24	< 0.50	17.7	4.2	< 0.26	< 0.18
	3/3/2015	29.99	723.69	15.4	7.97	779	-55	0.3	< 0.50	< 0.24	< 0.50	28	5.4	< 0.26	< 0.18
	6/17/2015	29.72	723.96	15.9	7.25	748	-13	0.8	< 0.50	< 0.24	< 0.50	18.4	3.9	< 0.26	< 0.18
	9/23/2015	29.71	723.97	16.0	7.25	703	-2	0.7	< 0.50	1.4	< 0.50	47	18.5	< 0.26	< 0.18
	12/16/2015	29.19	724.49	15.7	7.22	720	16	2.9	< 0.50	0.52 J	< 0.50	58.8	15.5	< 0.26	< 0.18
	3/9/2016	28.55	725.13	16.1	7.18	731	30	0.5	< 0.50	1.6	< 0.50	73.9	22.7	< 0.26	< 0.18
	6/29/2016	28.61	725.07	16.5	7.23	757									

Table 1
Monitoring Well Summary
Former Warner Facility
Roscoe, Illinois

Well	Date	Field Parameters							Volatile Organic Compounds						
		Water Depth	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
		Feet	Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Intermediate Groundwater Cleanup Goal - For Source Area Monitoring Wells⁽¹⁾															
MW-104	9/16/2008	25.47	728.23	14.3	6.79	842	337	2	1.4	1	<1.0	172	27.4	<1.0	<1.0
	9/26/2008 (S*)	NM	NM	14.8	6.87	868	166	8.4	<5.0	<5.0	<5.0	356	59.3	<5.0	<5.0
	9/26/2008 (D*)	NM	NM	14.5	6.80	858	176	7.8	<5.0	<5.0	<5.0	256	41.2	<5.0	<5.0
	10/8/2008	26.01	727.69	14.1	7.13	849	226	8.3	<2.0	<2.0	<2.0	157	21.7	<2.0	<2.0
	11/6/2008	26.62	727.08	14.6	6.82	954	-127	3.2	<2.5	<2.5	<2.5	150	51.4	<2.5	<2.5
	11/24/2008	26.95	726.75	12.0	6.64	893	-158	0.9	1.8	<1.0	<1.0	126.0	51	<1.0	<1.0
	12/15/2008	27.34	726.36	12.6	7.03	759	-201	0.5	1.5	<1.0	<1.0	109.0	34.9	<1.0	<1.0
	3/9/2010	27.49	726.21	13.9	7.13	751	-23	0.5	<1.0	<1.0	<1.0	61.1	20.9	<1.0	<1.0
	5/27/2010	26.91	726.79	15.0	7.00	843	-180	0.2	5.5	<1.0	<1.0	15.7	112	<1.0	<1.0
	7/1/2010	27.1	726.60	15.2	6.83	760	-6	0.1	<1.0	<1.0	<1.0	2.8	68.3	<1.0	<1.0
DUP-01	7/29/2010	26.88	726.82	18.3	7.19	787	-212	0.5	<1.0	<1.0	<1.0	8.3	31.2	<1.0	<1.0
	8/30/2010	26.55	727.15	18.8	7.06	785	-163	0.2	<1.0	<1.0	<1.0	9.4	12.4	<1.0	<1.0
	9/24/2010	26.94	726.76	16.6	7.24	758	-253	0.3	<1.0	<1.0	<1.0	11.4	5.8	<1.0	<1.0
	11/4/2010	27.67	726.03	14.8	7.33	698	-129	0.2	<1.0	<1.0	<1.0	14.6	3.3	<1.0	<1.0
	11/29/2010	28.15	725.55	13.2	7.31	719	-119	0.6	<1.0	<1.0	<1.0	14.0	2.0	<1.0	<1.0
DUP-02	12/20/2010	28.34	725.36	14.3	7.23	703	-83	2.7	<1.0	<1.0	<1.0	15.0	3.0	<1.0	<1.0
	3/22/2011	28.08	725.62	14.3	7.29	677	-122	0.2	<0.9	<0.75	<0.45	1.4	<0.83	<0.89	<0.18
	3/22/2011	28.08	725.62	14.3	7.29	677	-122	0.2	<0.9	<0.75	<0.45	1.3	<0.83	<0.89	<0.18
	7/7/2011	27.94	725.76	18.1	7.30	780	-54	0.7	<0.9	<0.75	<0.45	11.7	<0.83	<0.89	<0.18
	9/23/2011	28.7	725.00	16.3	7.23	725	-70	1.8	<0.9	<0.75	<0.45	8.8	<0.83	<0.89	<0.18
DUP-02	12/21/2011	29.06	724.64	15.9	7.09	722	-55	2.2	<0.9	<0.75	<0.45	3.8	<0.83	<0.89	<0.18
	3/6/2012	29.59	724.11	14.9	7.28	734	-56	0.3	<0.9	<0.75	<0.45	2.0	<0.83	<0.89	<0.18
	6/7/2012	29.88	723.82	16.0	7.23	705	-7	0.5	<0.9	<0.75	<0.45	2.4	<0.83	<0.89	<0.18
	9/27/2012	31.59	722.11	14.8	7.27	719	-75	0.0	<0.9	<0.75	<0.45	0.93 J	<0.83	<0.89	<0.18
	12/20/2012	32.12	721.58	14.9	7.28	734	-50	0.0	<0.9	<0.75	<0.45	0.80 J	<0.83	<0.89	<0.18
	3/9/2013	31.53	722.17	14.7	7.26	719	4	0.4	<0.9	<0.75	<0.45	5.3	<0.83	<0.89	<0.18
	5/20/2013	27.61	726.09	15.1	7.18	719	23	3.5	<0.44	0.58 J	<0.47	218	38	<0.37	<0.18
	8/27/2013	26.67	727.03	17.2	7.19	740	76	4.6	0.59 J	<0.28	<0.47	143	7.8	<0.37	<0.18
	10/23/2013	28.03	725.67	15.2	6.88	1030	-103	0.3	<0.44	<0.28	<0.47	<0.36	13.8	<0.37	<0.18
	11/25/2013	28.41	725.29	15.8	7.05	754	-128	0.1	<0.44	0.41 J	<0.47	2	65.4	<0.37	<0.18
DUP-02	12/11/2013	28.74	724.96	15.7	7.09	706	-112	0.2	<0.44	0.35 J	<0.47	2.4	49.3	<0.37	<0.18
	3/11/2014	29.31	724.39	15.1	7.28	728	-119	0.2	<0.44	<0.28	<0.47	9.6	10.3	<0.37	<0.18
	6/25/2014	28.01	725.69	16.2	7.15	826	-60	0.6	0.72 J	2.1	<0.50	201	61.3	<0.26	<0.18
	9/24/2014	28.18	725.52	15.8	7.19	753	-69	0.04	<0.50	<0.24	<0.50	99.2	10.8	<0.26	<0.18
	12/17/2014	29.36	724.34	15.5	7.14	765	-94	1.0	<0.50	<0.24	<0.50	22.0	4.6	<0.26	<0.18
	3/3/2015	30.08	723.62	15.2	7.96	761	-95	0.1	<0.50	<0.24	<0.50	8.8	2.4	<0.26	<0.18
	6/17/2015	29.79	723.91	17.0	7.24	728	-40	1.6	<0.50	<0.24	<0.50	17.5	5.8	<0.26	<0.18
	9/23/2015	29.77	723.93	16.3	7.19	713	-42	1.6	<0.50	0.33 J	<0.50	42.6	8.8	<0.26	<0.18
	12/16/2015	29.26	724.44	15.7	7.15	733	-11	3.2	<0.50	0.54 J	<0.50	57.2	16	<0.26	<0.18
	3/9/2016	28.63	725.07	16.0	7.11	724	35	2.6	<0.50	0.65 J	<0.50	134	21.4	<0.26	<0.18
DUP-02	6/29/2016	28.71	724.99	16.1	7.22	730	-78	2.7	<0.50	2.2	<0.50	134	2		

Table 1
Monitoring Well Summary
Former Warner Facility
Roscoe, Illinois

Well	Date	Field Parameters							Volatile Organic Compounds						
		Water Depth	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
		Feet	Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Intermediate Groundwater Cleanup Goal - For Source Area Monitoring Wells⁽¹⁾															
MW-105	3/10/2010	25.33	725.86	13.1	7.06	780	-61	NM	<1.0	1.8	<1.0	91.5	42.8	<1.0	2.6
	5/28/2010	25.03	726.16	16.0	7.26	3040	-480	0.3	<1.0	<1.0	<1.0	1.6	5.9	<1.0	<1.0
DUP-01	7/1/2010	24.89	726.30	13.3	6.87	2050	-24	0.1	<1.0	<1.0	<1.0	2.7	37.9	<1.0	<1.0
	7/1/2010	24.89	726.30	13.3	6.87	2050	-24	0.1	<1.0	<1.0	<1.0	2.5	37.5	<1.0	<1.0
	7/29/2010	24.68	726.51	14.7	7.34	1781	-266	0.1	<1.0	1.5	<1.0	<1.0	67.2	<1.0	<1.0
	8/30/2010	24.25	726.94	17.1	7.67	1158	-350	0.0	<1.0	1	<1.0	<1.0	27.7	<1.0	10.4
	9/24/2010	24.95	726.24	15.0	7.74	877	-319	0.1	<1.0	<1.0	<1.0	<1.0	6.6	<1.0	22.9
DUP-01	11/4/2010	25.54	725.65	14.7	8.63	609	-364	0.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	41.4
	11/4/2010	25.54	725.65	14.7	8.63	609	-364	0.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	34.4
DUP-01	11/29/2010	26	725.19	14.1	9.05	583	-361	0.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	19.9
	11/29/2010	26	725.19	14.1	9.05	583	-361	0.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	19.0
	12/21/2010	26.25	724.94	13.9	9.05	604	-26	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	18.6
	3/17/2011	25.97	725.22	14.2	8.84	677	-310	0.0	<0.9	<0.75	<0.45	<0.48	<0.83	<0.89	11.7
	7/6/2011	25.77	725.42	13.9	9.08	591	-293	0.3	<0.9	<0.75	<0.45	<0.48	<0.83	<0.89	7.3
	9/26/2011	26.56	724.63	14.1	8.98	646	-229	1.5	<0.9	<0.75	<0.45	<0.48	<0.83	<0.89	<0.18
	12/21/2011	26.89	724.30	14.2	8.83	585	-183	1.6	<0.9	<0.75	<0.45	<0.48	<0.83	<0.89	7
	3/6/2012	27.45	723.74	14.0	8.51	646	-235	0.1	<0.9	<0.75	<0.45	<0.48	<0.83	<0.89	6.9
	6/6/2012	27.7	723.49	14.3	8.24	665	-272	0.0	<0.9	<0.75	<0.45	<0.48	<0.83	<0.89	5.5
	9/27/2012	29.4	721.79	15.0	8.33	609	-308	0.0	<0.9	<0.75	<0.45	<0.48	<0.83	<0.89	6.5
	12/21/2012	29.89	721.30	12.5	8.14	690	-275	0.0	<0.9	<0.75	<0.45	<0.48	<0.83	<0.89	5.2
	3/8/2013	29.33	721.86	12.0	8.17	720	-267	0.0	<0.9	0.92	<0.45	1.9	1.7	<0.89	10.3
	5/20/2013	25.37	725.82	14.9	7.87	796	-250	0.0	<0.44	0.79 J	<0.47	3.4	8.5	<0.37	4.5
	8/28/2013	24.52	726.67	15.6	7.84	597	-239	0.0	<0.44	0.86 J	<0.47	17.3	13.4	<0.37	6.7
	12/11/2013	26.58	724.61	10.1	7.59	770	-158	0.1	<0.44	0.98 J	<0.47	51.2	26.2	<0.37	19.1
	3/11/2014	27.14	724.05	11.5	8.10	616	-243	0.0	<0.44	0.39 J	<0.47	6.1	3.6	0.52 J	68.8
	6/25/2014	25.83	725.36	19.1	8.17	576	-297	0.0	<0.50	0.75 J	<0.50	0.64 J	3.1	<0.26	27
	9/24/2014	25.97	725.22	15.9	7.86	700	-215	0.0	<0.50	0.78 J	<0.50	12.0	8.4	<0.26	29.2
	12/17/2014	27.2	723.99	11.3	7.13	711	-215	1.1	<0.50	1.7	<0.50	16.1	24.8	1.2	43.3
	3/5/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	6/17/2015	27.33	723.86	15.8	7.72	996	-212	0.0	<0.50	0.83 J	<0.50	0.98 J	3.9	2.7	43.3
	9/23/2015	27.44	723.75	15.8	7.50	884	-213	0.1	<0.50	0.87 J	<0.50	1	1.4	<0.26	18.2
	12/17/2015	26.68	724.51	11.4	7.55	732	-179	0.1	<0.50	0.93 J	<0.50	0.43 J	1.3	1.1	33.7
	3/9/2016	26.21	724.98	15.7	7.40	743	-191	0.0	<0.50	0.70 J	<0.50	1.0 J	5.4	1	28.9
	6/30/2016	26.29	724.90	14.6	7.71	723	-228	0.0	<0.50	1.9	<0.50	0.67 J	3.2	2.5	55.6
	9/27/2016	26.97	724.22	17.9	7.53	821	-195	0.0	<0.50	1.3	<0.50	1.8	7.8	2.1	35.7

Table 1
Monitoring Well Summary
Former Warner Facility
Roscoe, Illinois

Well	Date	Field Parameters							Volatile Organic Compounds						
		Water Depth	Water Elev.	Sample Temp.	pH	Spec. Cond.	ORP	Dis. Oxygen	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
		Feet	Ft. MSL	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Intermediate Groundwater Cleanup Goal - For Source Area Monitoring Wells⁽¹⁾															
LTMW-03	3/11/2010	27.16	725.03	11.8	7.19	673	141	7.0	<1.0	<1.0	<1.0	52.8	57.3	<1.0	<1.0
	6/25/2010	26.79	725.40	13.6	8.85	769	15	7	<1.0	<1.0	<1.0	107	76	<1.0	<1.0
DUP-01	9/21/2010	26.62	725.57	15.9	6.86	683	72	3.3	<1.0	<1.0	<1.0	151.0	66.2	<1.0	<1.0
	9/21/2010	26.62	725.57	15.9	6.86	683	72	3.3	<1.0	<1.0	<1.0	153.0	64.9	<1.0	<1.0
DUP-01	12/22/2010	28.10	724.09	9.7	7.22	694	36	4.6	<1.0	<1.0	<1.0	143.0	85.9	<1.0	<1.0
	3/17/2011	27.80	724.39	13.3	7.26	707	120	2.4	< 0.9	< 0.75	< 0.45	109.0	30.1	< 0.89	< 0.18
DUP-01	7/6/2011	27.59	724.60	16.6	7.30	740	43	5.9	< 0.9	< 0.75	< 0.45	77.8	86.6	< 0.89	< 0.18
	9/22/2011	28.36	723.83	12.9	7.21	692	38	6.4	< 0.9	< 0.75	< 0.45	84.8	73.9	1.1	1.3
DUP-01	12/21/2011	28.80	723.39	11.3	7.17	719	-46	4.8	< 0.9	1.5	< 0.45	123.0	116	< 0.89	1.4
	3/6/2012	29.21	722.98	11.3	7.25	756	-9	2.0	< 0.9	1.3	< 0.45	103.0	102	< 0.89	1.4
DUP-01	6/6/2012	29.44	722.75	14.4	7.17	752	-30	3.0	< 0.9	1.1	< 0.45	69.2	91.5	< 0.89	< 0.18
	9/28/2012	31.18	721.01	12.4	7.21	674.92	13	1.5	< 0.9	1.2	< 0.45	84.5	55.3	< 0.89	10
DUP-02	12/20/2012	31.62	720.57	10.0	7.15	726.8	86	1.9	< 0.9	1.3	< 0.45	92.8	80.7	< 0.89	2.3
	3/8/2013	31.00	721.19	10.4	7.29	655	36	0.5	< 0.9	< 0.75	< 0.45	59.9	31.2	< 0.89	6
DUP-02	5/21/2013	27.00	725.19	13.5	7.21	688.5	57	0.9	< 0.44	< 0.28	< 0.47	73.6	37.9	< 0.89	2.6
	8/29/2013	26.42	725.77	14.8	7.18	644.8	133	8.3	< 0.44	< 0.28	< 0.47	66.8	45.8	< 0.89	< 0.18
DUP-02	9/30/2013	27.29	724.90	14.0	7.26	588.3	154	7.3	< 0.44	0.34 J	< 0.47	50.4	20.6	< 0.37	0.26 J
	10/23/2013	27.76	724.43	11.6	7.69	566.6	90	7.7	< 0.44	< 0.28	< 0.47	39.6	15.6	< 0.37	< 0.18
DUP-02	11/25/2013	28.15	724.04	10.3	7.39	479	39	5.1	< 0.44	< 0.28	< 0.47	32.1	16	< 0.37	< 0.18
	12/12/2013	28.43	723.76	8.6	7.46	486	-8	4.0	< 0.44	< 0.28	< 0.47	29.4	14.4	< 0.37	1.6
DUP-02	12/12/2013	28.43	723.76	8.6	7.46	486	-8	4.0	< 0.44	< 0.28	< 0.47	27.7	12.8	< 0.37	1.5
	3/13/2014	28.83	723.36	9.8	7.42	679	-88	2.1	< 0.44	< 0.28	< 0.47	5.6	26.5	< 0.37	< 0.18
DUP-02	6/26/2014	27.60	724.59	14.9	7.41	655	-122	1.3	< 0.50	< 0.24	< 0.50	4.9	31	0.34 J	3.6
	9/25/2014	27.88	724.31	13.8	7.51	595	-120	1.6	< 0.50	< 0.24	< 0.50	6.6	15	< 0.26	11.2
DUP-02	12/18/2014	29.02	723.17	10.3	7.30	554	-101	1.4	< 0.50	< 0.24	< 0.50	29.7	8.6	< 0.26	3
	3/5/2015	29.71	722.48	9.0	7.14	565	-89	1.5	< 0.50	< 0.24	< 0.50	26.5	6.4	< 0.26	2.7
DUP-02	6/18/2015	29.28	722.91	14.2	7.35	600	-88	0.6	< 0.50	< 0.24	< 0.50	32.6	11.6	< 0.26	8
	9/24/2015	29.38	722.81	15.3	7.32	573	-102	1.6	< 0.50	< 0.24	< 0.50	20.9	5.9	< 0.26	5.7
DUP-02	12/17/2015	28.81	723.38	10.3	7.35	607	-110	0.4	< 0.50	0.40 J	< 0.50	15.3	5.3	< 0.26	19.8
	3/10/2016	28.21	723.98	11.0	7.24	537	-47	1.6	< 0.50	< 0.24	< 0.50	18.2	4.6	< 0.26	4.7
DUP-01	6/30/2016	28.29	723.90	14.2	7.38	546	-76	2.3	< 0.50	0.25 J	< 0.50	14.3	4.5	< 0.26	7.5
	9/27/2016	28.91	723.28	15.2	7.37	590	-105	1.3	< 0.50	0.26 J	< 0.50	12.1	3.8	< 0.26	7.6
DUP-01	9/27/2016	28.91	723.28	15.2	7.37	590	-105	1.3	< 0.50	0.28 J	< 0.50	12.3	3.9	< 0.26	8.1

Notes (1) Limit established in 2009 Workplan

(2) NM indicates not measured

(3) S* indicates the samples was collected from the top of the water column in the well (less than 2 feet below the top of well screen).

(4) D* indicates the samples was collected from the bottom of the water column in the well (less than 2 feet below the bottom of the well screen).

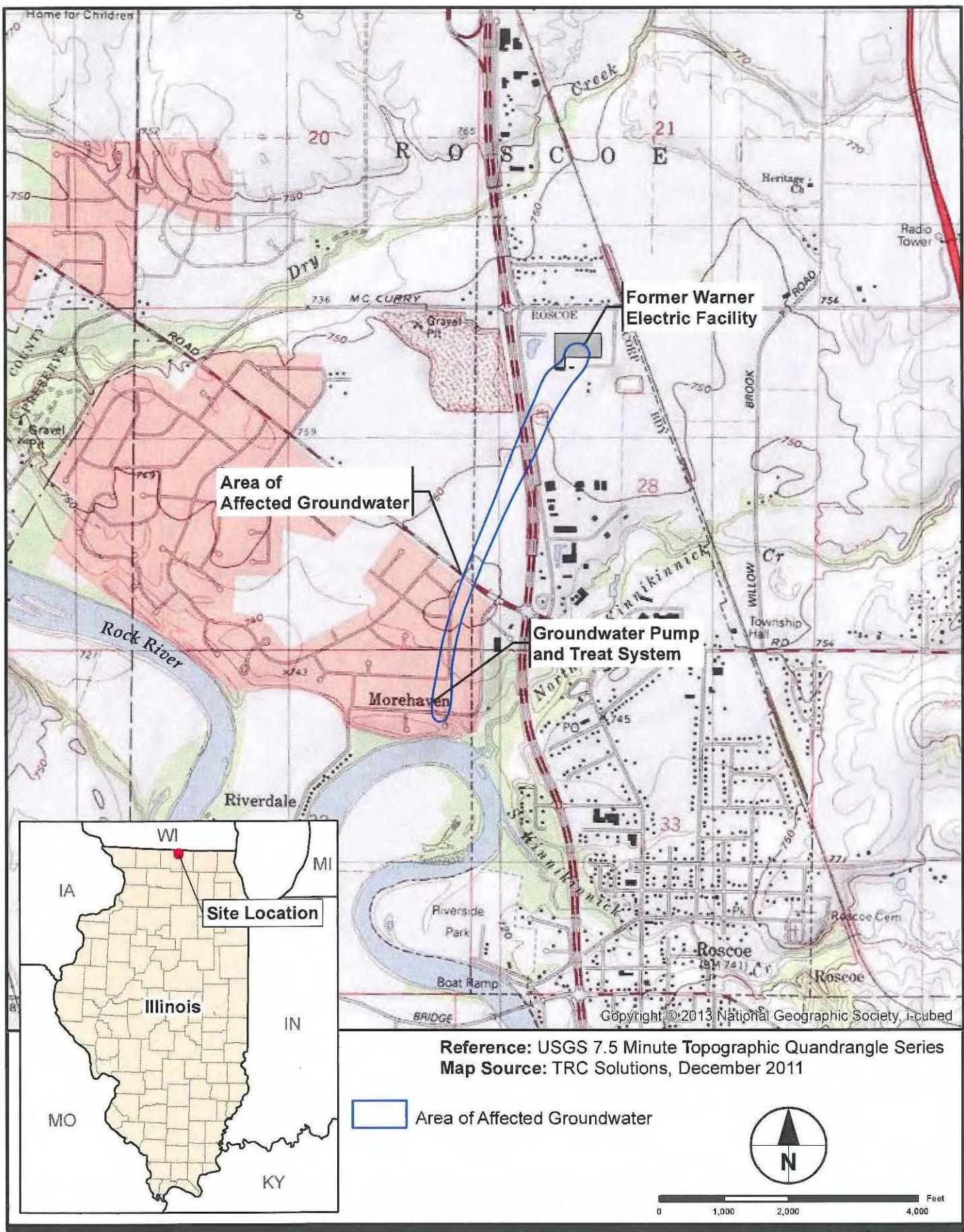
(5) J indicates estimated concentration. Reported result is between the method detection limit and the practical quantitation limit.

(6) < indicates parameter was not detected above the listed method detection limit.

(7) **Red Bold** values exceed the Intermediate Cleanup Criteria

FIGURES

Figures



Dana Corporation
Former Warner Electric Division
Roscoe, Illinois
Project No.: 60272149 Date: 2014-02-18

Site Location Map

AECOM

Figure: 1

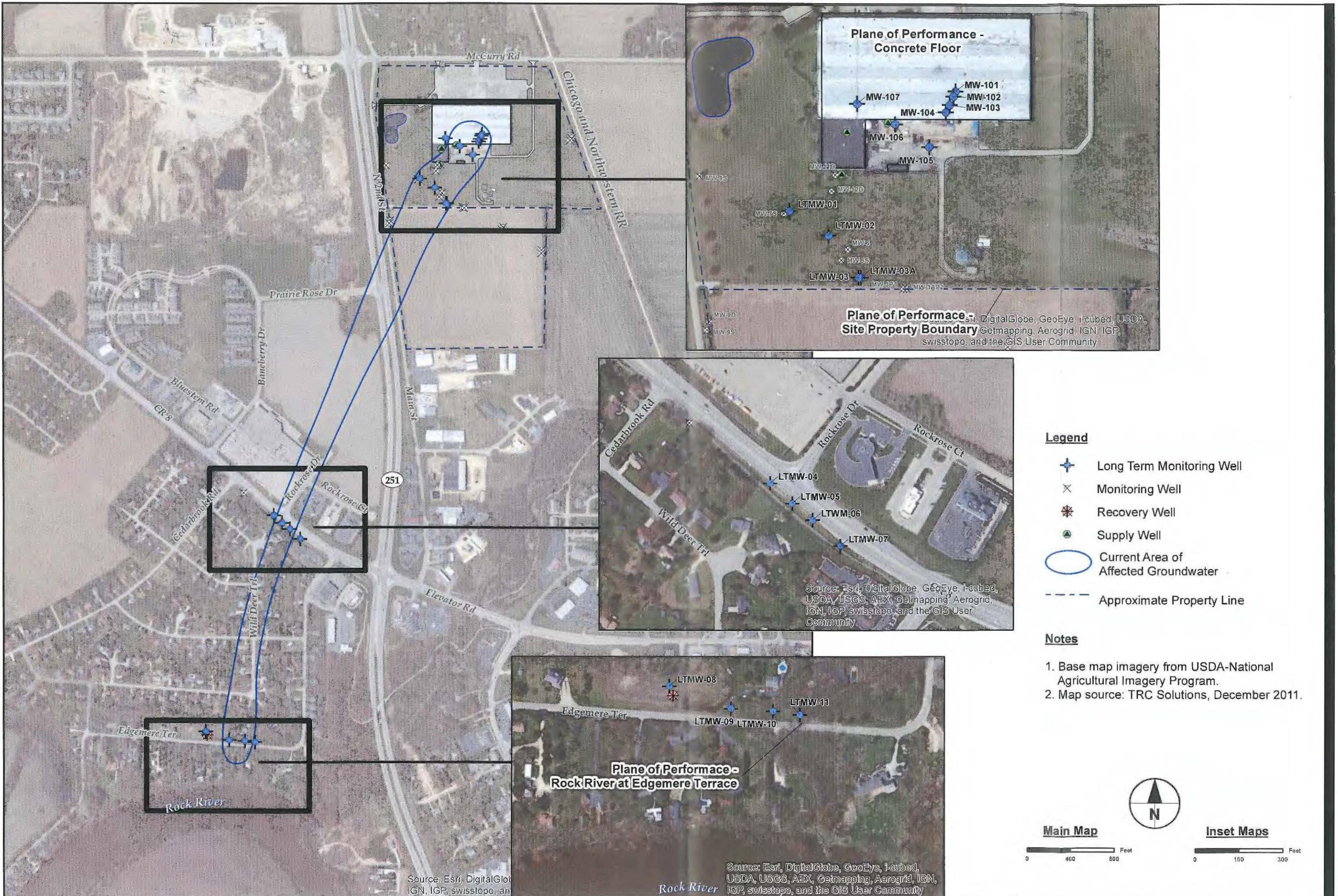


Figure 3
MW-103 CVOC Concentration Trend

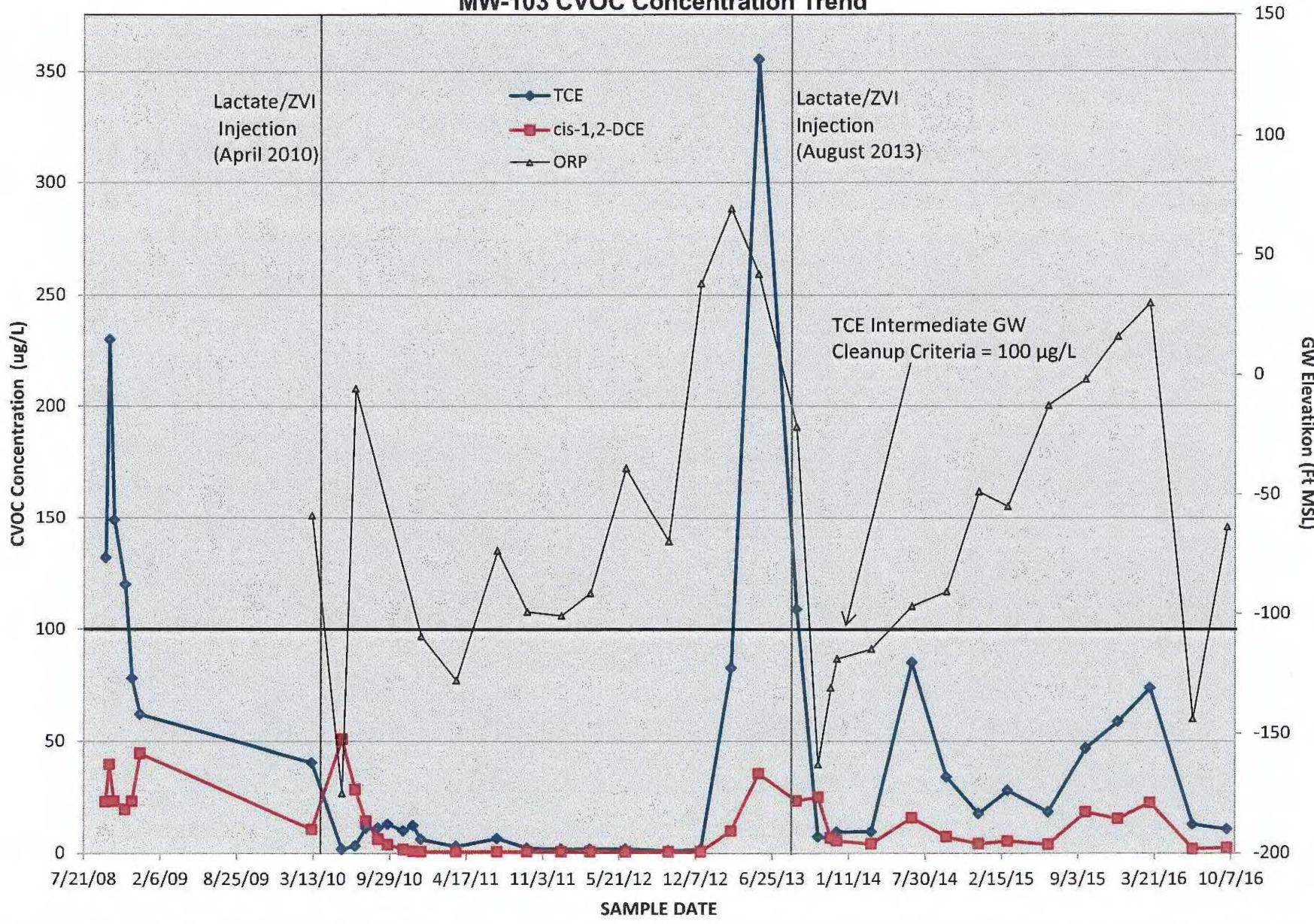


Figure 4
MW-104 CVOC Concentration Trend

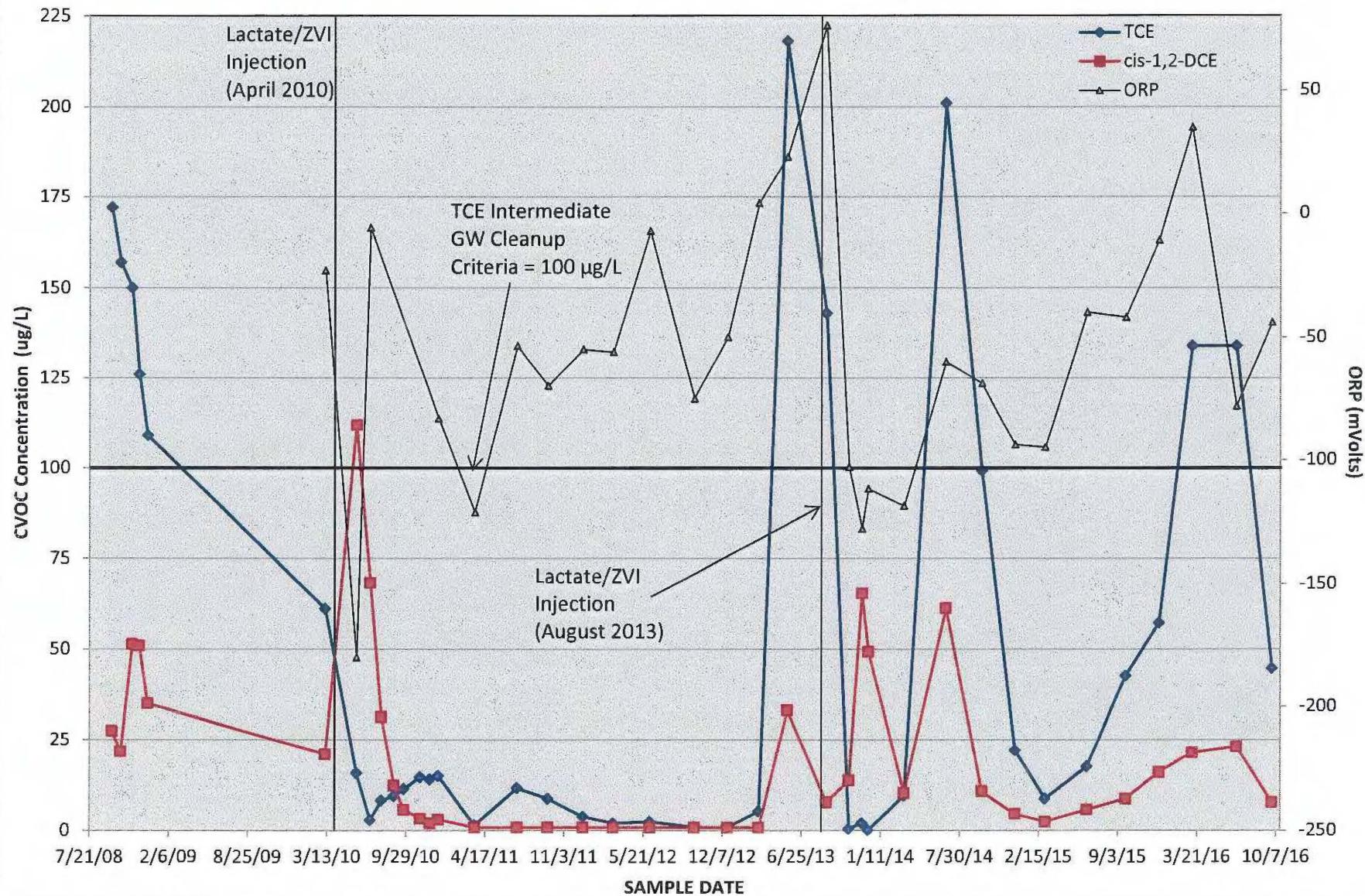


Figure 5
MW-105 CVOC Concentration Trend

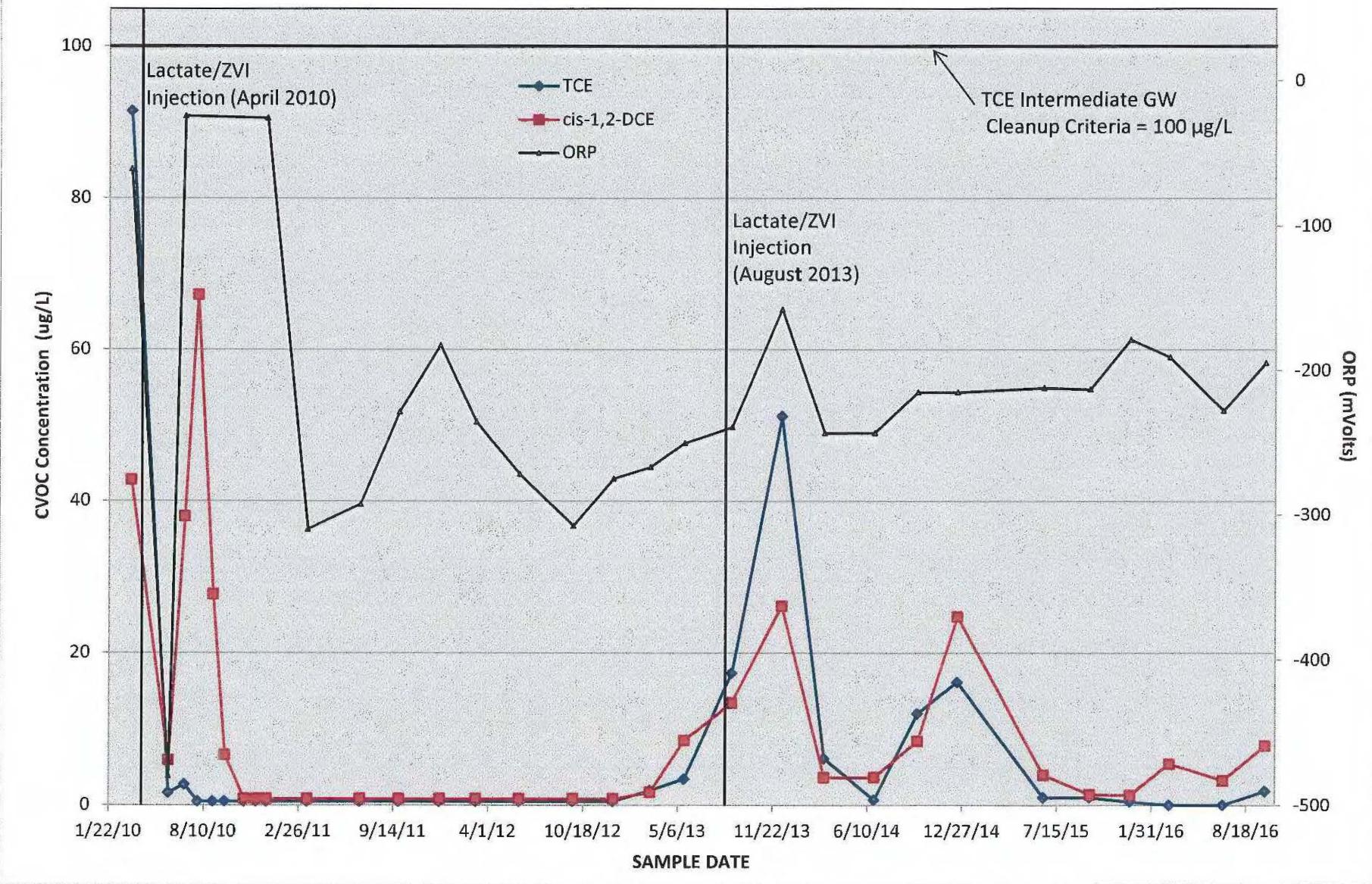
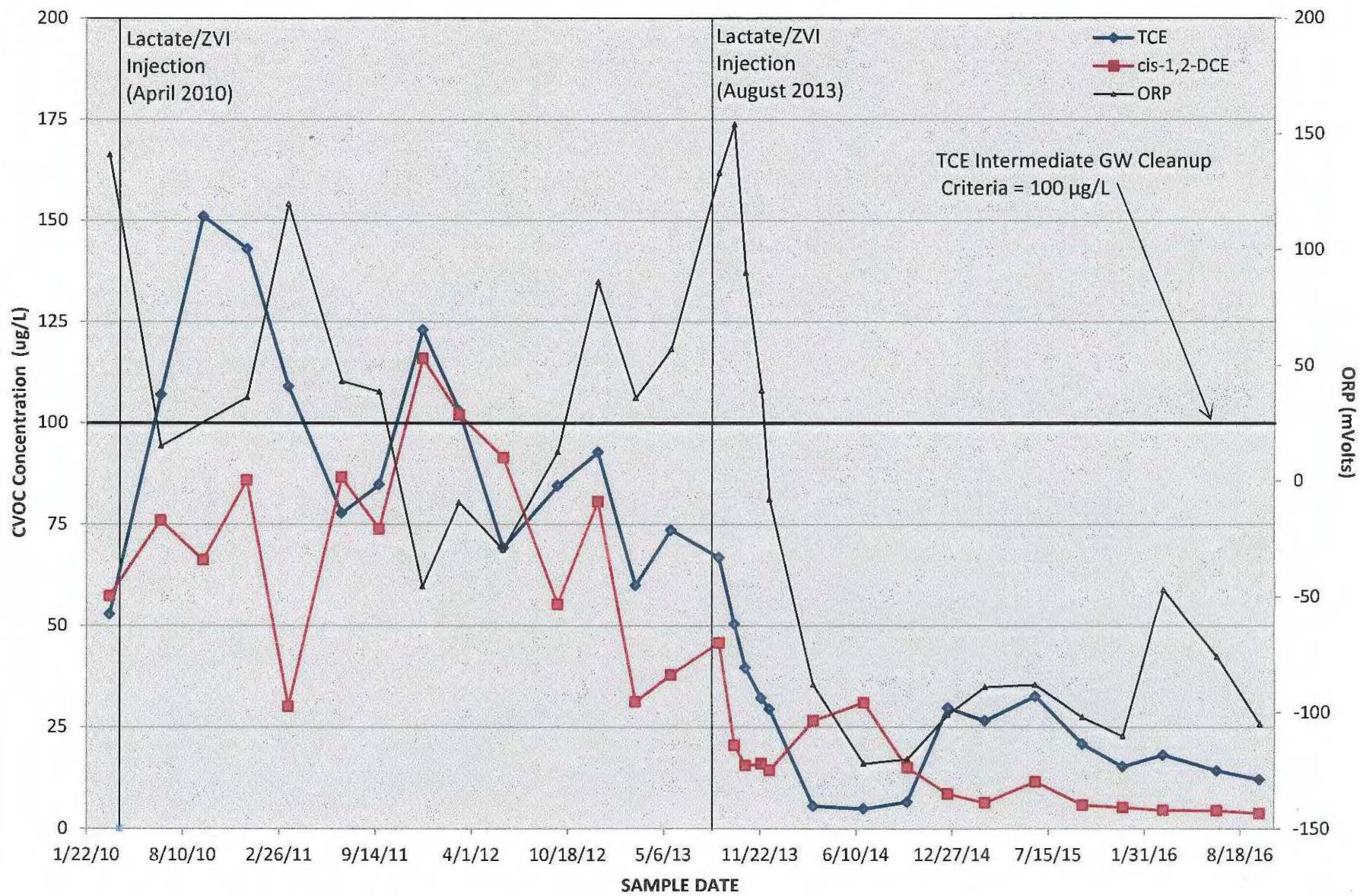


Figure 6
LTMW-03 CVOC Concentration Trend



ATTACHMENT 1

Attachment 1 - Laboratory Data Report

October 11, 2016

Jim Buss
AECOM, Inc. - MADISON
1350 Deming Way
Suite 100
Middleton, WI 53562

RE: Project: 60508313 DANA ROSCOE CORP
Pace Project No.: 40139193

Dear Jim Buss:

Enclosed are the analytical results for sample(s) received by the laboratory on September 29, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Christopher Hyska
christopher.hyska@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 60508313 DANA ROSCOE CORP
Pace Project No.: 40139193

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

Virginia VELAP ID: 460263

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Virginia VELAP Certification ID: 460263

Virginia VELAP ID: 460263

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 60508313 DANA ROSCOE CORP

Pace Project No.: 40139193

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40139193001	MW-103	Water	09/27/16 10:51	09/29/16 10:10
40139193002	MW-104	Water	09/27/16 11:47	09/29/16 10:10
40139193003	MW-105	Water	09/27/16 13:07	09/29/16 10:10
40139193004	LTMW-03	Water	09/27/16 14:06	09/29/16 10:10
40139193005	DUP-01	Water	09/27/16 00:00	09/29/16 10:10
40139193006	TRIP BLANK	Water	09/27/16 00:00	09/29/16 10:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 60508313 DANA ROSCOE CORP
 Pace Project No.: 40139193

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40139193001	MW-103	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	14	PASI-G
40139193002	MW-104	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40139193003	MW-105	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40139193004	LTMW-03	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40139193005	DUP-01	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	14	PASI-G
40139193006	TRIP BLANK	EPA 8260	HNW	14	PASI-G

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 60508313 DANA ROSCOE CORP
Pace Project No.: 40139193

Method: EPA 6010
Description: 6010 MET ICP
Client: AECOM, Inc. - Middleton
Date: October 11, 2016

General Information:

5 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 60508313 DANA ROSCOE CORP

Pace Project No.: 40139193

Method: EPA 8260

Description: 8260 MSV

Client: AECOM, Inc. - Middleton

Date: October 11, 2016

General Information:

6 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 236749

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40139229007

R1: RPD value was outside control limits.

- MSD (Lab ID: 1405400)
- Vinyl chloride

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60508313 DANA ROSCOE CORP

Pace Project No.: 40139193

Sample: MW-103 Lab ID: 40139193001 Collected: 09/27/16 10:51 Received: 09/29/16 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5	ug/L	10.0	1.5	1	10/03/16 14:19	10/04/16 14:49	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/03/16 08:26	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/03/16 08:26	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/03/16 08:26	75-34-3	
cis-1,2-Dichloroethene	2.4	ug/L	1.0	0.26	1		10/03/16 08:26	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/03/16 08:26	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/03/16 08:26	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/03/16 08:26	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/03/16 08:26	108-88-3	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/03/16 08:26	71-55-6	
Trichloroethene	10.7	ug/L	1.0	0.33	1		10/03/16 08:26	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/03/16 08:26	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	82	%	70-130		1		10/03/16 08:26	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		10/03/16 08:26	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		10/03/16 08:26	2037-26-5	

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ANALYTICAL RESULTS

Project: 60508313 DANA ROSCOE CORP
Pace Project No.: 40139193

Sample: MW-104 Lab ID: 40139193002 Collected: 09/27/16 11:47 Received: 09/29/16 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5	ug/L	10.0	1.5	1	10/03/16 14:19	10/04/16 14:51	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/07/16 16:45	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/07/16 16:45	75-71-8	
1,1-Dichloroethane	0.57J	ug/L	1.0	0.24	1		10/07/16 16:45	75-34-3	
cis-1,2-Dichloroethene	7.8	ug/L	1.0	0.26	1		10/07/16 16:45	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/07/16 16:45	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/07/16 16:45	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/07/16 16:45	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/07/16 16:45	108-88-3	
1,1,1-Trichloroethane	0.53J	ug/L	1.0	0.50	1		10/07/16 16:45	71-55-6	
Trichloroethene	44.7	ug/L	1.0	0.33	1		10/07/16 16:45	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/07/16 16:45	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		10/07/16 16:45	460-00-4	
Dibromofluoromethane (S)	92	%	70-130		1		10/07/16 16:45	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		10/07/16 16:45	2037-26-5	

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ANALYTICAL RESULTS

Project: 60508313 DANA ROSCOE CORP
Pace Project No.: 40139193

Sample: MW-105 Lab ID: 40139193003 Collected: 09/27/16 13:07 Received: 09/29/16 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	2.5J	ug/L	10.0	1.5	1	10/03/16 14:19	10/04/16 14:54	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/07/16 17:07	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/07/16 17:07	75-71-8	
1,1-Dichloroethane	1.3	ug/L	1.0	0.24	1		10/07/16 17:07	75-34-3	
cis-1,2-Dichloroethene	7.8	ug/L	1.0	0.26	1		10/07/16 17:07	156-59-2	
trans-1,2-Dichloroethene	2.1	ug/L	1.0	0.26	1		10/07/16 17:07	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/07/16 17:07	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/07/16 17:07	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/07/16 17:07	108-88-3	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/07/16 17:07	71-55-6	
Trichloroethene	1.8	ug/L	1.0	0.33	1		10/07/16 17:07	79-01-6	
Vinyl chloride	35.7	ug/L	1.0	0.18	1		10/07/16 17:07	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		10/07/16 17:07	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		10/07/16 17:07	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		10/07/16 17:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: 60508313 DANA ROSCOE CORP

Pace Project No.: 40139193

Sample: LTMW-03 Lab ID: 40139193004 Collected: 09/27/16 14:06 Received: 09/29/16 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5	ug/L	10.0	1.5	1	10/03/16 14:19	10/04/16 14:56	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/07/16 17:29	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/07/16 17:29	75-71-8	
1,1-Dichloroethane	0.26J	ug/L	1.0	0.24	1		10/07/16 17:29	75-34-3	
cis-1,2-Dichloroethene	3.8	ug/L	1.0	0.26	1		10/07/16 17:29	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/07/16 17:29	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/07/16 17:29	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/07/16 17:29	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/07/16 17:29	108-88-3	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/07/16 17:29	71-55-6	
Trichloroethene	12.1	ug/L	1.0	0.33	1		10/07/16 17:29	79-01-6	
Vinyl chloride	7.6	ug/L	1.0	0.18	1		10/07/16 17:29	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		10/07/16 17:29	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		10/07/16 17:29	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		10/07/16 17:29	2037-26-5	

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ANALYTICAL RESULTS

Project: 60508313 DANA ROSCOE CORP

Pace Project No.: 40139193

Sample: DUP-01 Lab ID: 40139193005 Collected: 09/27/16 00:00 Received: 09/29/16 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	<1.5	ug/L	10.0	1.5	1	10/03/16 14:19	10/04/16 14:59	7440-47-3	
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/07/16 17:51	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/07/16 17:51	75-71-8	
1,1-Dichloroethane	0.28J	ug/L	1.0	0.24	1		10/07/16 17:51	75-34-3	
cis-1,2-Dichloroethene	3.9	ug/L	1.0	0.26	1		10/07/16 17:51	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/07/16 17:51	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/07/16 17:51	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/07/16 17:51	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/07/16 17:51	108-88-3	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/07/16 17:51	71-55-6	
Trichloroethene	12.3	ug/L	1.0	0.33	1		10/07/16 17:51	79-01-6	
Vinyl chloride	8.1	ug/L	1.0	0.18	1		10/07/16 17:51	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		10/07/16 17:51	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		10/07/16 17:51	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		10/07/16 17:51	2037-26-5	

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ANALYTICAL RESULTS

Project: 60508313 DANA ROSCOE CORP
Pace Project No.: 40139193

Sample: TRIP BLANK Lab ID: 40139193006 Collected: 09/27/16 00:00 Received: 09/29/16 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/03/16 08:03	106-48-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/03/16 08:03	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/03/16 08:03	75-34-3	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/03/16 08:03	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/03/16 08:03	156-60-5	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/03/16 08:03	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/03/16 08:03	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/03/16 08:03	108-88-3	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/03/16 08:03	71-55-6	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/03/16 08:03	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/03/16 08:03	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	82	%	70-130		1		10/03/16 08:03	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		10/03/16 08:03	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		10/03/16 08:03	2037-26-5	

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QUALITY CONTROL DATA

Project: 60508313 DANA ROSCOE CORP
Pace Project No.: 40139193

QC Batch:	236961	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
Associated Lab Samples:	40139193001, 40139193002, 40139193003, 40139193004, 40139193005		

METHOD BLANK: 1404607 Matrix: Water

Associated Lab Samples: 40139193001, 40139193002, 40139193003, 40139193004, 40139193005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chromium	ug/L	<1.5	10.0	1.5	10/04/16 14:15	

LABORATORY CONTROL SAMPLE: 1404608

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	500	474	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1404609 1404610

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Chromium	ug/L	351	500	500	810	807	92	91	75-125	0	20

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QUALITY CONTROL DATA

Project: 60508313 DANA ROSCOE CORP

Pace Project No.: 40139193

QC Batch:	236687	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	40139193001, 40139193006		

METHOD BLANK: 1402774 Matrix: Water

Associated Lab Samples: 40139193001, 40139193006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	0.50	09/30/16 14:14	
1,1-Dichloroethane	ug/L	<0.24	1.0	0.24	09/30/16 14:14	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	0.50	09/30/16 14:14	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	0.26	09/30/16 14:14	
Dichlorodifluoromethane	ug/L	<0.22	1.0	0.22	09/30/16 14:14	
Methylene Chloride	ug/L	<0.23	1.0	0.23	09/30/16 14:14	
Tetrachloroethene	ug/L	<0.50	1.0	0.50	09/30/16 14:14	
Toluene	ug/L	<0.50	1.0	0.50	09/30/16 14:14	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	0.26	09/30/16 14:14	
Trichloroethene	ug/L	<0.33	1.0	0.33	09/30/16 14:14	
Vinyl chloride	ug/L	<0.18	1.0	0.18	09/30/16 14:14	
4-Bromofluorobenzene (S)	%	86	70-130		09/30/16 14:14	
Dibromofluoromethane (S)	%	113	70-130		09/30/16 14:14	
Toluene-d8 (S)	%	99	70-130		09/30/16 14:14	

LABORATORY CONTROL SAMPLE: 1402775

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	58.4	117	70-131	
1,1-Dichloroethane	ug/L	50	56.6	113	70-133	
1,4-Dichlorobenzene	ug/L	50	48.4	97	70-130	
cis-1,2-Dichloroethene	ug/L	50	54.3	109	69-130	
Dichlorodifluoromethane	ug/L	50	28.1	56	23-130	
Methylene Chloride	ug/L	50	53.0	106	70-130	
Tetrachloroethene	ug/L	50	52.9	106	70-138	
Toluene	ug/L	50	56.5	113	70-130	
trans-1,2-Dichloroethene	ug/L	50	51.8	104	70-131	
Trichloroethene	ug/L	50	54.8	110	70-130	
Vinyl chloride	ug/L	50	45.1	90	49-130	
4-Bromofluorobenzene (S)	%			107	70-130	
Dibromofluoromethane (S)	%			124	70-130	
Toluene-d8 (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1403676 1403677

Parameter	Units	40139116001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.50	50	50	55.7	58.1	111	116	70-134	4	20	

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QUALITY CONTROL DATA

Project: 60508313 DANA ROSCOE CORP
Pace Project No.: 40139193

Parameter	Units	40139116001		MS		MSD		1403677			
		Result	Spike Conc.	Spike Conc.	Result	MSD	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD
1,1-Dichloroethane	ug/L	<0.24	50	50	56.6	58.5	113	117	70-134	3	20
1,4-Dichlorobenzene	ug/L	<0.50	50	50	47.9	48.3	96	97	70-130	1	20
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	54.4	55.7	109	111	61-140	2	20
Dichlorodifluoromethane	ug/L	<0.22	50	50	26.3	27.0	53	54	23-130	3	20
Methylene Chloride	ug/L	<0.23	50	50	53.0	54.7	106	109	70-130	3	20
Tetrachloroethene	ug/L	<0.50	50	50	51.8	52.8	104	106	70-148	2	20
Toluene	ug/L	<0.50	50	50	55.1	56.8	110	114	70-130	3	20
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	52.9	54.6	106	109	70-133	3	20
Trichloroethene	ug/L	<0.33	50	50	54.0	55.0	108	110	70-131	2	20
Vinyl chloride	ug/L	<0.18	50	50	44.7	46.1	89	92	49-133	3	20
4-Bromofluorobenzene (S)	%						105	105	70-130		
Dibromofluoromethane (S)	%						110	112	70-130		
Toluene-d8 (S)	%						102	102	70-130		

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REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: 60508313 DANA ROSCOE CORP

Pace Project No.: 40139193

QC Batch:	236749	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV

Associated Lab Samples: 40139193002, 40139193003, 40139193004, 40139193005

METHOD BLANK: 1403273 Matrix: Water

Associated Lab Samples: 40139193002, 40139193003, 40139193004, 40139193005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	0.50	10/07/16 06:40	
1,1-Dichloroethane	ug/L	<0.24	1.0	0.24	10/07/16 06:40	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	0.50	10/07/16 06:40	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	0.26	10/07/16 06:40	
Dichlorodifluoromethane	ug/L	<0.22	1.0	0.22	10/07/16 06:40	
Methylene Chloride	ug/L	<0.23	1.0	0.23	10/07/16 06:40	
Tetrachloroethene	ug/L	<0.50	1.0	0.50	10/07/16 06:40	
Toluene	ug/L	<0.50	1.0	0.50	10/07/16 06:40	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	0.26	10/07/16 06:40	
Trichloroethene	ug/L	<0.33	1.0	0.33	10/07/16 06:40	
Vinyl chloride	ug/L	<0.18	1.0	0.18	10/07/16 06:40	
4-Bromofluorobenzene (S)	%	89	70-130		10/07/16 06:40	
Dibromofluoromethane (S)	%	90	70-130		10/07/16 06:40	
Toluene-d8 (S)	%	111	70-130		10/07/16 06:40	

LABORATORY CONTROL SAMPLE: 1403274

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.2	102	70-131	
1,1-Dichloroethane	ug/L	50	44.6	89	70-133	
1,4-Dichlorobenzene	ug/L	50	51.0	102	70-130	
cis-1,2-Dichloroethene	ug/L	50	43.8	88	69-130	
Dichlorodifluoromethane	ug/L	50	42.7	85	23-130	
Methylene Chloride	ug/L	50	46.4	93	70-130	
Tetrachloroethene	ug/L	50	55.4	111	70-138	
Toluene	ug/L	50	52.8	106	70-130	
trans-1,2-Dichloroethene	ug/L	50	46.4	93	70-131	
Trichloroethene	ug/L	50	53.5	107	70-130	
Vinyl chloride	ug/L	50	51.5	103	49-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1405399 1405400

Parameter	Units	MS		MSD		MS Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40139229007 Result	Spike Conc.	Spike Conc.	MS Result							
1,1,1-Trichloroethane	ug/L	<0.50	50	50	47.4	49.9	95	100	70-134	5	20	

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QUALITY CONTROL DATA

Project: 60508313 DANA ROSCOE CORP

Pace Project No.: 40139193

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1405399		1405400														
Parameter	Units	MS		MSD		MS		MSD		MS		MSD		% Rec Limits	RPD RPD	Max Qual		
		40139229007	Result	Spike Conc.	Spike Conc.	Result	MSD	% Rec	MSD	% Rec	MSD	% Rec	MSD	% Rec				
1,1-Dichloroethane	ug/L	<0.24		50	50	37.6	44.1	75	88	70-134	16	20						
1,4-Dichlorobenzene	ug/L	<0.50		50	50	50.0	52.6	100	105	70-130	5	20						
cis-1,2-Dichloroethene	ug/L	<0.26		50	50	35.7	42.3	71	85	61-140	17	20						
Dichlorodifluoromethane	ug/L	<0.22		50	50	34.5	41.6	69	83	23-130	19	20						
Methylene Chloride	ug/L	<0.23		50	50	36.7	43.4	73	87	70-130	17	20						
Tetrachloroethene	ug/L	<0.50		50	50	64.2	55.4	128	111	70-148	15	20						
Toluene	ug/L	<0.50		50	50	60.6	53.5	121	107	70-130	12	20						
trans-1,2-Dichloroethene	ug/L	<0.26		50	50	37.8	43.9	76	88	70-133	15	20						
Trichloroethene	ug/L	<0.33		50	50	52.2	54.2	104	108	70-131	4	20						
Vinyl chloride	ug/L	<0.18		50	50	40.5	50.2	81	100	49-133	21	20	R1					
4-Bromofluorobenzene (S)	%								98	96	70-130							
Dibromofluoromethane (S)	%								94	96	70-130							
Toluene-d8 (S)	%								113	97	70-130							

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: 60508313 DANA ROSCOE CORP
Pace Project No.: 40139193

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60508313 DANA ROSCOE CORP
Pace Project No.: 40139193

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40139193001	MW-103	EPA 3010	236961	EPA 6010	237093
40139193002	MW-104	EPA 3010	236961	EPA 6010	237093
40139193003	MW-105	EPA 3010	236961	EPA 6010	237093
40139193004	LTMW-03	EPA 3010	236961	EPA 6010	237093
40139193005	DUP-01	EPA 3010	236961	EPA 6010	237093
40139193001	MW-103	EPA 8260	236687		
40139193002	MW-104	EPA 8260	236749		
40139193003	MW-105	EPA 8260	236749		
40139193004	LTMW-03	EPA 8260	236749		
40139193005	DUP-01	EPA 8260	236749		
40139193006	TRIP BLANK	EPA 8260	236687		

REPORT OF LABORATORY ANALYSIS

(Please Print Clearly)

Company Name: AECOM
 Branch/Location: Middleton WI
 Project Contact: Jim Buss
 Phone: 608-828-8210
 Project Number: 60508313
 Project Name: Dana Roscoe Corp
 Project State: FL
 Sampled By (Print): Allan Hollatz
 Sampled By (Sign): *Allan Hollatz*
 PO #: — Regulatory Program:

Data Package Options

(billable)

 EPA Level III EPA Level IV

MS/MSD

 On your sample (billable) NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
Sl = Sludge	WP = Wipe

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Project

WO# : 40139193

Client Name: AECOM

Courier: Fed Ex UPS Client Pace Other: CSL DigiSAC

Tracking #:



40139193

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used: SR-53 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 4 /Corr: 4.5 Biological Tissue Is Frozen: yes

Temp Blank Present: yes no

no

Temp should be above freezing to 6°C for all sample except Biota.

Frozen Biota Samples should be received ≤ 0°C.

Comments:

Person examining contents:

Date: 9-29-16

Initials: MAM

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO ₃ , H ₂ SO ₄ ≤2, NaOH+ZnAct ≥9, NaOH ≥12)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>MM</u> Lab Std #/ID of preservative Date/ Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>3808</u>		

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CD

Date: 9-29-16